

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Acetone

CAS number 67-64-1

Synonyms Dimethyl ketone; 2-Propanone; Methyl ketone

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious Eye Damage/Eye Irritation Category 2
Flammable Liquids Category 2
Specific Target Organ Toxicity - single exposure Category 3

Target Organ(s) - Central nervous system (CNS)

Specific Target Organ Toxicity - repeated exposure Category 2

Target Organ(s) - Kidney, Liver, Spleen, Blood

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2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Highly flammable liquid and vapor. Causes serious eye irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated

exposure.

Precautionary statements

Prevention: Wash face, hands, and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Keep cool.

Response: Get medical attention/advice if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Fire: In case of fire, use CO2, dry chemical, or foam for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

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3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Acetone	Dimethyl ketone; 2-Propanone; Methyl ketone	67-64-1	<= 100%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. May cause pulmonary edema.

4.3 Indication of any immediate medical attention and special treatment needed

If symptoms persist, call a physician. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray, Carbon dioxide (CO2), dry chemical,

alcohol-resistant foam. Water mist may be used to

cool closed containers.

Unsuitable extinguishing media Water may be ineffective.

5.2 Specific hazards arising from the substance or mixture

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Flammable. Risk of ignition. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO2). Formaldehyde. Methanol.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Flash Point -20 °C / -4 °F (Closed cup)

Autoignition Temperature 465 °C / 869 °F

Explosion limits

Upper 12.8 vol % **Lower** 2.5 vol %

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
2	3	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

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Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces, and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Flammables area. Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from heat, sparks, and flame.

Incompatibilities

Strong oxidizing agents. Strong reducing agents. Strong bases. Peroxides. Halogenated compounds. Alkali metals. Amines.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Va	lue
	(Vacated) TWA	750 ppm	1800 mg/m3
Acetone	(Vacated) STEL	1000 ppm	2400 mg/m3
	TWA	1000 ppm	2400 mg/m3

US. ACGIH Threshold Limit Values

Component	Туре	Value
Acetone	TWA	250 ppm
Acetone	STEL	500 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value	
Acetone	IDLH	2500 ppm	
Acetone	TWA	250 ppm 590 mg/m3	

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

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Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Liquid Physical State Clear Appearance

Sweet, Alcohol-like Odor No information available Odor Threshold No information available рН

-94°C (-137 °F) Melting Point/Range 56 °C (133 °F) Boiling Point/Range Expected to be rapid

Evaporation Rate

Flammable Flammability (solid)

Flammability or explosive limit

12.8% (V) Upper 2.5% (V) Lower

245.3 hPa (184.0 mmHg) at 20.0 °C (68.0 °F) Vapor Pressure

No information available Vapor Density 0.791 g/cm3 at 25 °C (77 °F) Density

Soluble Solubility

Laballey.com Page 6 of 11 Partition coefficient: No data available

n-octanol/water

Autoignition Temp 465 °C (869°F)

Decomposition Temp

Viscosity

No information available

No information available

Molecular Formula C3H6O
Molecular Weight 58.08 g/mol

VOC Content(%) No information available

Oxidizing properties Not oxidizing

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Heat, flames, and sparks. Incompatible products. Keep away fromopen flames, hot surfaces, and sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents. Strong reducing agents. Strong bases. Peroxides. Halogenated compounds. Alkali metals. Amines.

10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2), Formaldehyde, Methanol.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetone	5,800 mg/kg (Rat)	7,426 mg/kg (Guinea pig)	50,100 mg/m3, 8h (Rat)

Skin corrosion/irritation

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Slightly irritating to the skin. Repeated contact with neat product may dry the skin causing cracking and/or fissuring.

Serious eye damage/eye irritation

Causes serious eye irriitation.

Respiratory or skin sensitization

Not a skin sensitizer. Chronic exposure may cause dermatitis.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Acetone	67-64-1	Not listed				

Specific target organ toxicity - single exposure

Central nervous system (CNS).

Specific target organ toxicity - repeated exposure

Kidney, Liver, Spleen, Blood.

Reproductive toxicity

No information available.

Chronic effects

Prolonged inhalation may be harmful.

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
	LC50	Pimephales promelas	6210 mg/L, 96h, flow- through
	LC50	Daphnia pulex (Water flea)	8800 mg/L, 48h, static
Acetone	NOEC	M. aeruginosa	530 mg/L, 8d, static
	EC50	Activated sludge	61.15 mg/L, 30min, static
	NOEC	Daphnia magna (Water flea)	2212 mg/L, 28d, flow- through

12.2 Persistence and degradability

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Readily biodegradable.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its volatility.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes	
Acetone - 67-64-1	U002	-	

SECTION 14: Transport information

DOT (US)

UN-no	UN1090
Proper Shipping Name	Acetone
Hazard Class	3
Packing Group	II

IMDG

UN-no	UN1090
Proper Shipping Name	Acetone
Hazard Class	3
Packing Group	II

IATA

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UN-no UN1090 Proper Shipping Name Acetone

Hazard Class 3
Packing Group II

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, Acetone (CAS #67-64-1), RQ: 5000 lb.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Listed, Acetone (CAS #67-64-1).

US state regulations

US. Massachusetts RTK - Substance List

Listed, Acetone (CAS #67-64-1).

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US. New Jersey Worker and Community Right-to-Know Act

Listed, Acetone (CAS #67-64-1).

US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Acetone (CAS #67-64-1).

California Proposition 65

Not listed.

SECTION 16: Other information

Issue date: 06/18/2018 Revision 1: 06/15/2023 Revision 2: 11/11/2024

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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